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NPIC/TSSG/DED-1382-68 2 October 1968

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SUBJECT: High Precision Stereo Comparator, NPIC Project 11038

25X1	1. Technical Director,	
	visited NPIC on 24 and 25 September 1968 and Project Manager for the Comparator, visited NPIC on 25 and 26 September 1968.	25X1
	2. In the AM of 24 September, and the technical monitor attended a meeting in TSSG/TSD at which math models for strip photography were discussed. and three members of his branch along with	25X1
25X1 25X1	were discussed and three members of his branch along with of IEG/PHD were able to provide with a great deal of valuable information for use in his computer programming of correlation	25X1
25X1 25X1	and stage tracking functions of the comparator system. also arranged for to get a briefing and further information on the math model work taking place in the Center. This took place in the PM of 25 September and reports that it was most helpful.	25X1
25X1	3. In the PM of 24 September, met with of TSSG/TPD. The electrical interfacing of the Model 35 teletype with the On-Line Central Computer was examined and information exchanged. This problem seems to be pretty well resolved.	25X1
	4. During the last two hours of 24 September, of IEG/PHD provided Skiff with additional information on pan photography.	25X1
25X1	5. On 25 September, gave a tour of the TSSG/TSD clean room. The laminar flow and the Kozitron filter units were inspected. This is somewhat like the system that will house the Comparator. A short tour was also made of the proposed site for the comparator on the first floor. Problems of bringing in the granite slabs were discussed and they do not seem to be too serious.	25X1 25X1
25X1 25 X 1	and the technical monitor also had a meeting with of PSG/AID. stated that their Model 35 teletype was wired for an 8 level code and asked if this was acceptable to the central computer. stated that they used a 7 level code but this was no	
25X1 25X1	serious problem since the 8th level is only a parity bit. inquired about the stereo program for the central computer and that it is still not on-line. stated that part of the programming was completed and that the on-line operation will be ready when the	25X1 25X1
	comparator is delivered next year. stated that the answers or distances computed for the stereo program will not be instantaneous as they are on the mono program. The stereo program will store some of the items in memory and later send back the answer to the computation.	25X1

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SUBJECT: High Precision Stereo Comparator, NPIC Project 11038

25X1 25X1	Some time was spent discussing how the Central Computer and the small DDP-516 computer will share the input/output capability of the Model 35 teletype. suggested that this might be a good time for NPIC to assign a programmer to the task of getting acquainted with the 516 computer and the correlation and tracking programs and will soon be preparing. All agreed to this proposal but the technical monitor said that he would have to query Chief of Photogrammetry Division, to see if IEG/PHD, TSSG/TSD, or PSG/AID will do the DDP-516 programming for any future acquisition systems.	25 X1
25X1 25X1 25X1	7. In the PM of 25 September, and the technical monitor met with to discuss the conceptual design for the site preparation and the clean room for the comparator. Copies of drawings on the site preparation, air conditioning, and power requirements had been submitted to for review prior to this meeting. The plans and performance for the "black box" were studied and promised to supply copies of the two bids that are due 27 September 1968. Plans call for the black box to be	25X1
25X1	completed within 120 days of contract date. The possibility of sending the 'black box' to for checkout with the optical system was discussed.	
	Several modifications were made to the power requirements to insure that overloads would not occur during certain critical operations. Several changes were also made to the air flow around the operator to insure that a dead space did not occur that would allow dirt to build up. The rate of flow of air from certain lines was modified to insure adequate cooling of critical items.	
	The machine room was thoroughly reviewed and plans made to allow room for the vacuum pumps and other ancillary equipment. requested that the height of the room be increased from 8 ft. to 9 or 10 ft. said this would greatly increase the cost of operating the room and said he would attempt to increase the height to a minimum of 8 ft. 6 inches. To provide overhead room for removing the covers of the optical bridge for maintenance on the optics, provisions will be made for an eight foot section of the ceiling to fold back on hinged panels over the bridge of the compara-	25X1 25X1
25X1	tor. stated that he was concerned about getting the 65 inch high	25X1
25X1 25X1	stated that 96" high vault doors would be installed between that would allow free movement of the cabinets into the site.	25X1
	Indications are that the close coordination with Logistics and have paid off. It looks as though the site and clean room will provide for	25X1
0EV4	all the requirements of the Comparator. asked when actual construction would begin on the site. stated that Logistics was still	25X1
25X1	awaiting NPIC authorization to use on an Architectural and Engineering Contract to design the site and clean room.	25X1

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25X1 25X1 25X1	spent most of 26 September in IEG/PHD. showed him how some of the mensuration instruments were operated and allowed him to work on some of the instruments that were not busy with production items. also spent time observing operators performing mensuration operations on actual production jobs on several different instruments.	25X1
	Some time was spent discussing just how and why operators perform certain functions in specific orders. The concensus of opinion, with which the technical monitor agrees, is that it might be a good idea for to spend some time in November working in IEG/PHD. Teach him the usual measuring procedures and allow him to perform measuring tasks on actual jobs that have been run by IEG/PHD. While he is quite competent to check the quality	25X1
	of the optical system being fabricated by he should have a working knowledge of its intended use so as to determine if it is operating properly.	25X1
	Since he will be checking out these operations as a sole judge at he should be trained to operate stereo instruments so that he can evaluate	25X1
	from an operational standpoint. If approval is granted by both and NPIC management, the week of 18 November 1968 might be a good time for to work in IEG/PHG.	25X1 25X1
25X1	9. Arrangements have been made for to visit on 9 October 1968 and for and the technical monitor to visit on 9 and 10 October 1968.	25X1 25X1
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